

6 Dec 1981

The Opening & Development of the Basic Research of Human Body Science  
Qian Xue Sen, Human Body Exceptional Function Newsletter, (6-30-1981) p.2-3

CHINESE ROCKET EXPERT

In 1979, a human body exceptional function —  
"reading by ears" was discovered in a teenager in the  
Mainland. Within 2 years, many teenagers were discovered  
or trained to possess such human body exceptional  
functions throughout the country. Though the exact number  
is not known, it is estimated to be no less than a  
thousand. Those functions include "sight not by eyes",  
"100X magnification of microparticles", "remote viewing",  
"remote feeling", "moving the needles of a watch" or  
"breaking a branch from a plant by will" and other  
newly discovered functions. In this process, it was discovered  
that these teenagers could remove pain from patients.

This is very similar to the treatment used by the

qigong practitioners. On the other hand, the obscure advanced qigong practitioners also possess the above exceptional function. This ties the human body exceptional function + qigong together. The human body exceptional functions of these teenagers are natural while the ones developed from qigong exercise are controlled by the mind. These natural occurring exceptional functions are also found in some adults, but only a few individuals. So in our study of human body exceptional functions (HBEF), we concentrate on some of the selected subjects; unlike in the other countries, they don't select their subjects. This has made our results very outstanding & very accurate. It is not like using statistical method to find a pin in the ocean. This is the advantage of our method.

Also, from the experiences of the qigong practitioners and the Chinese medicine literature, it illustrates that the Chinese medicine theories and qigong are of the same source. The ancient famous medical doctors in our country were probably themselves qigong practitioners. Thus Chinese medicine, qigong and human body exceptional function form a system, and qigong is the central focus and is the key to understand Chinese medicine theories and HBEF. And this makes our research based on a long time practice in the society.

However, in the history of 2000 years in our country, the activities of the qigong practitioners were mysterious and often suffered persecutions from the political parties and being treated as superstitious.

Therefore people's impression of quigong is that it is not scientific, improper and cannot be listed together with science. Is this really true? If so, then these thousand youngsters who possess HBEF were unjustly treated + those Chinese doctors should, according to the sub stubborn people, be utterly destroyed. I myself, like the delegate of this conference, do not agree with such concept. This is a very important scientific problem. We need to be reasonable. Now in this article, I want to express my present understanding: the most basic theory of Human Body Science may be hidden in quigong, Chinese medicine theory and HBEF. They are not mysterious but are closely related to the frontier of scientific technology. For this reason, they are the important research projects in science. Of course,

my knowledge on this is inseparable from the help of all the researchers in HBEF in this country. During the past year, they have continuously supplied me the results of their research in correspondence, and I have learned a lot of new discoveries and some new revelations. But what I am sharing here is definitely not complete, and may have some errors; anyway, I am sharing this with all the comrades for their comments and corrections.

(1) To illustrate the concepts mentioned above, let us just pick up the topic in "pain generated by needle puncture". This is still the contribution of neurology specialist Professor Zhang Ziang Tong. When a needle is poked at a certain spot, the pain is generated at another spot in the body. Is there a

direct relationship between the two? When one sees this outward phenomenon, it seems that the needle spot & the pain spot have a direct relationship. This is the belief of traditional belief of the Chinese doctors. If this is really so, the needle spot & the pain spot are only directly connected by nerves. This transmission by nerves is very fast, almost like instantaneous. In fact it is not exactly so. Usually from the time the needle is poked to the time the pain is felt, it takes more than 20 minutes. Therefore it is impossible that it is direct. It must be much more complicated than this, and it must involve an intermediate slow process. Professor Zhang Ziang Tong discovered that when a person was poked with a needle, at that instance, the lower lobe of the brain would

secrete ? (an enzyme or chemical) which would then have effect on the nerves. This process takes more than 20 minutes. It is the effect of ? on the nerve that generates the pain. We have 2 important points from this. First, it is a direct process from the insertion point to the pain spot; second, the winding pathway includes the brain and the nervous system. Thus just looking at the outward phenomena will lead people in the wrong direction.

However, is there actually a substance of the nerve network? We ask, "what is nerve network in the body?" From the anatomy of the human body, we cannot find nerve network and there is no special physiological system connecting the nerves.

However, one can feel the traveling of nerve message

Not only the feeling, it is evidently detected by many different kinds of instruments. Even the noise generated can also be detected. If one says that there isn't any nerve network, there is. I think the mystery lies within the nervous nervous system of man, within the brain of the nervous system. It maybe that the brain receives the signal from that spot and then the next spot that is corresponding to the brain is stimulated. It is then transmitted continually to all other spots. This is like the pain generated from the needle, it takes a cyclic pathway: from one spot to the brain, then from one unit of the brain to another unit. It is the brain that connects the nerve network. It is not what is called the vicinity system of the nerve network. It is a general effect, not a local one.



Therefore to study the nerve network, we cannot depend on anatomy of a cadaver; we have to study the activities of the brain of a living person, the activities controlled by the mind and the general activities of this macrosystem.

This kind of mind-controlling activities, as proposed by comrade Huang Jia Lin, is the inner function of the breath power (qigong). Through the feeling, ~~the~~ i.e. controlling the movement of the breath (energy).<sup>1</sup> So the transmission of the energy in qigong cannot be explained as a substance travelling but it is under the conscious control of the mind, and it is the feeling of the complicated function of the whole body. The word

<sup>1</sup> Hereafter the word energy will be used.

feeling is oversimplified. It is the nervous system receiving messages of the activities of the human body complicated functions. It is the result of the applied working of the brain. This applied working is closely related to the social practice. For example, a qigong practitioner will release his energy to a certain spot and there is a feeling of a warm current. This is the same as our response to some external stimulation in our daily living. It is phenomenal. Thus this transmission of the energy in the body, based on this concept, is not directly substantial. ~~The who~~ But of course, the whole body in the physiological, psychological activities of qigong is the activities of substances. Therefore, the "energy" is the result of of this activity of substance. ~~Approved For Release 2002/05/17 : CIA-RDP96-00792R000200230002-9~~ ~~the energy activities of~~

the qigong practitioner with this concept in mind  
can we deliver from that mysterious realm and  
to place this "energy" into the frame of the  
modern science. In the history of science, from  
the understanding of the feeling of man, to  
science, there are a lot of such examples: like  
the activities of the sun, the moon, the stars of  
the universe, the hum: heavenly creator to the  
earth-centered theory, then to the sun-centered  
theory, they all have the process of understanding  
from outward phenomena to substances. The <sup>deeper</sup> ~~more~~ the  
understanding of the substances, the easier it is to  
tie it up with the whole modern science technology  
and then it will be up to date.

energy and the common people cannot. That illustrates that the prerequisite of energy-control is breath exercise. In between, it involves the gesture of the practitioner, the activities of the tongue, the regulation of the breath, the relaxation of the body, the controlling of the mechanical body by the mind and lastly the releasing of this "energy". This is to say all qigong practitioners have to regulate their bodies through exercise so as to get out of the normal state of daily living and to arrive at a "hold", or a "meditate" or a HBET state, the qigong state function state. Though it sounds like a new term, in fact it is nothing. Everybody knows that man is generally transferring from one of the 2 human body function states throughout the 24 hours: the awake function state and the asleep function state. These

2 function states are obviously and definitely different from each other physiologically and psychologically. Besides the normal daily living, some people when they are seriously injured or under critical condition, such as lack of oxygen, will enter into the danger function state. At this point, the physiology and psychology of the body will be readjusted to cope with the situation so as to save that person's life. Also, some people have some super power to do something at a shorter period of time e.g. sports activities, steering a plane at the points of departure and landing, steering a sky rocket to leave or to arrive back on Earth, the soldiers at the time of wars, etc., the body will be adjusted to another function state: the alert function state. Besides, in hypnotism, man can enter into a

state in between being sober and being asleep called the hypnotised function state. Of course the research on human body function states is still primitive, the above 5 classified human body function states, besides *qigong* may still be not suitable. They maybe further classified differently. However, human body definitely has different physiological and psychological functions. So it is possible to have *qigong* function state as an additional one.

The reason that I mentioned the function states is to accurately understand the concept of *qigong*. It is also to tie up *qigong* research with the modern ~~tech~~ technology. The human body is a highly complicated machine or a highly complicated macrosystem. The recent macrosystem theory i.e. system analysis research, it has passed through the general system theory stage and

through the diverse structural thermodynamic theory stage (this is a branch gone far away from thermodynamic equilibrium) and has entered into statistical theory like Combination Supportive Combination (?) stage. These works proved that complicated macrosystems may have many relative steady function phases. Every degree of freedom in the macrosystem occupies a certain coordinate in the interspace in the system. In this multilevel interspace of billions and millions of degrees of freedom, the system has relative steady point or cycle, the system can "stop" at the vicinity of the point or of the cycle forming the function state of the system. A complicated macrosystem has more than one point or one cycle. Under some external influence, it can pass from one point or cycle to another point or cycle.

or another cycle i.e. another function state. For example, man in asleep function state can pass through some external loud noise or a push into awake function state. man in awake function state, through hypnotism, can enter into hypnotised function state.

Here we have a very important difference between man and things. Man has consciousness (a mind) while things have not. To have consciousness is that man can use the thinking power of the brain to influence the nervous system and can slightly change this highly complicated macrosystematic human body and ~~so~~ thus making the interspatial relative steady point or cycle in the macrosystem to change from its original steady state to an unsteady state. While another point or cycle to a more steady state. As a result, the human body moves into



this function state. It can also be that the consciousness of the human body macrosystem be used to generate a relative steady state point or cycle which did not exist in the system before and thus generating a new function state. No matter under which condition, man can, through the mind, enter from one function state to another function state. Everyone of us can enter from the awake ~~for~~ state to the asleep state. Of course some may have insomnia and (they need the help of sleeping pills). (I guessing from the content — top line of column b not clear)) We have to notice that these human body function changed by the mind or the thinking power are not direct, but very mysterious and indirect. It is that the mind or the thinking power works on one's nervous system ~~then the nervous system~~ influences

the whole human body, the whole human body is then enter into the new function state of the macrosystem. Because of this reason, some foreign scientists called it the Conscious Chain (?) or the Biological Chain (?). But I think this concept is too general. We should separate qigong function state and discuss it in more detail. We have to make it clear that the point of discussion is qigong power, it is to enter into qigong function state and not into some other functions like asleep function state. So I am sided with Mr. Huang Jia Lin's inner qigong power. It is the internal power of qigong that enables one to enter from the Awake function state to the qigong function state.

(2) The qigong function state described above, on

the qigong scale, is the basic stage. In the advanced

quigong stage, this "energy" is not limited to the inside of the human body. One can control it with his mind and release this "energy", which is a material energy, from ~~on~~ a certain position in his body. This energy is not only a material, it also carries a message. It can also be detected by scientific instrument. The type of signal depends on the different function of the detector: some of the signals are infrared, some are microwave, some are electrons of definite potential. Thus I think the "energy" detected is the biological representative (?) and is not the substance of the energy itself. This energy can also work on other objects ~~that~~ which can be dead or living, like another person. After the object receives the "energy", it can receive a message which also has

a body of substance. The quigong practitioner can receive the return message to his body. The message is then sent to the brain. The brain then organizes and finally forms the feeling. Some of the HBEF youngsters when they were exercising their function, go through the same process. The final feeling is mostly at the sight position to produce the feeling of the shape. "Ear reading", "Skin reading of letters and pictures", "transparent viewing" and even "remote viewing" are probably of the same process. An advanced quigong practitioner can even "<sup>see</sup> see" the energy released by another practitioner and immediately he can feel the shape and nature (color) of the "energy". "Remote feeling" has similar process except that the substance of the message maybe different.

Because of this knowledge of these functions of the advanced qigong practitioners and HBEF teenagers, this macrosystem is expanded from just the internal energy within the body to without the body, to objects outside the body, to even the return message from the external object. Here it needs to make clear 2 points. First, in this expanded highly complicated macrosystem the center of control is the brain of the practitioner, even under the leading of the mind and the will. Thus, based on the basic characteristic, it is no different from the system with the internal energy. Second, there is a new factor here. It is the substance of the "external energy". This and the external object are affecting each other to produce a return message. What is the material of the substance? It is still not clear.

Recently, the HBET teenagers had achieved a state beyond just getting a return message from the external object. They can even reach a state similar to that of "resonance": like moving the needles of a watch with the mind, or breaking a branch from a plant with the mind. Is this possible? We first saw many plants underwent very great change when received ultrasonic treatment; potatoes grew bigger than normal; mushrooms grew to 1-foot in size and wheat yield greatly increased. In addition, H. Frohlich thought that theoretically electromagnetic waves, like some phototransmitters (?) can produce some kind of resonance on living cells. Furthermore, A. Z. Smolyanskaya and Frohlich et al had found that millimeter of electromagnetic wave ( $10^{11}$  -  $10^{12}$  Hz) adjusted to a small frequency length (with longer wave

frequency range, it is only  $10^7 \sim 10^8$  Hz), can increase the cell division of E. coli and yeast. Others also observed the resonance of the life substance — DNA, under electromagnetic influence. This opened up the research on genetics. Light emission from blood or cells and other studies of the like were also sprang up. All these illustrate that the message carrying energy from the human body and non-living organisms, living organisms are affecting each other, producing the return message, and finally producing the strong "resonance". These are all possible to today's modern scientific technology.

Research of these kinds are going on and the preliminary results had proved the existence of these phenomena. Therefore the trained HBEF of the above

Advanced Training of Exceptional

functions of those teenagers can be completely put into the structural knowledge of modern science. With the new theories, these exceptional functions will no longer be so mysterious.

We have expanded this highly complicated macro-systematic human body beyond the human body, and have included the non-living and living organisms to be a super-macrosystem, in which every local part is closely related, is affecting each other and they are all inseparable. If they are separate separated, the practical feeling can no longer be explained. The ancient Chinese idiom "all things ~~in~~ in the universe are resting (?) upon each other" can best describe this situation. And we are quite happy about this because <sup>there</sup> ~~that~~ is exactly the same concept in modern science. <sup>however,</sup> this saying



has 2 sides. One side is based on the recent basic studies of quantum mechanics, that is the 隐参量 (?) put forth by Einstein et al in 1935, now there are 7 projects which had already announced. There is still 1 important result not yet finished and ~~x~~ announced. From the published results, mainly 5 of them, proved that the Quantum Mechanic Theories are correct. It proved the existence of an objective universe at the first place and this objective universe has its own laws of activities. ~~we~~ We cannot tolerate this disagreement. We ~~do~~ have to believe that all things are related i.e. it violates the concept of separability. Not long ago, B. d'Espagnat commented on this subject matter. He said, "many of those <sup>so</sup> ~~who~~ called independent point or system of points have already had some interaction

with ~~each~~ other bodies at some time in the past.

This implies that the violation of separability. In some sense these objects form an inseparable entity. In this world, the concept of ~~the existence in~~ independent existence may still hold but it has another meaning, and is far away from our daily experience." Of course, the research is not complete yet and it is not wise to draw the conclusion. However, the probability that all things in the Universe are related is very high.

There is one more thing that needs to be pointed out: the basic studies of Quantum Mechanics have built up a rigid structural theory. All the predictions based on this structural theory can be compared to the experimental results and all were proved to be true.

That ~~leads people to believe that the Quantum Mechanics~~

Theory is correct. However, in the last 6 decades, man is still facing a difficult problem: how to understand this structural theory itself? Because this structural theory seems to be contradicting, disagreeing to man's existing concepts according to tradition. For example, with one explanation: "The multiverse Theory" of Everett, Wheeler, Graham & DeWitt indicates that the potential new nature of the existing substance. But the new concept proposed from the basic research of Quantum Mechanics seem to be related to the discovery of human body exceptional functions. Maybe if we put these 2 problems together, we may have a hope to explain them with 1 common solution.

Another explanation is based on the research of cosmology. Man had discovered things as small as

particles and as big as the cosmo. many things are determined by only a few parameters. Therefore there are a lot of "probability" involved. For example, the ratio of the binding force between 2 masses to the ratio of gravitational force is about  $10^{36}$  and the age of the cosmo from the time of the Big Bang to the present (about 150 billion years) dividing the time needed for light to travel through the electrons is also about  $10^{36}$ . Before P. A. M. Dirac proposed the Large Number Hypothesis: if we want these 2 numbers to be constant, then the gravitational constant has to decrease with time; however, this still haven't been proved with experiments. Now B.J. Carr et al proposed: We can understand the existence of the Universe in the same way as our understanding of the existence of human body at this age on the basis of

probability. (In the time of the Universe, a difference of a few million years is insignificant.) It is because this Universe was just fit to produce man. And because of the existence of man, then we can understand this objective world — the Universe. Therefore we can see that man and the Universe, subjects and objects are existing dependently and this relationship cannot be separated." Can call this the Anthropic Principle (Some Chinese comrades translated it as man's cosmic theory" or "The Theory of man's choice". And I call it "Man-Universe concept". Though we can abandon the 2000 year old "Universe-man Felling theory" in Tung Chun Shu's "World Concepts of Theology", the new scientific research data confirmed the law of Man-Universe of substance belief.

Before I thought Qigong is the focus of Chinese Medicine Theories, Qigong and HBEF. It is the key of the opening + development studies of Human Body Science. However, because our concept is not complete, we cannot plan our research. From the above mention, we can see that our ~~own~~ thoughts on Qigong and HBEF are based on experimental results. Besides, we have further tie it up with modern technology of system analysis and physics, and with the newest development of modern scientific technology. It further illustrates its whole concept relating to the new accomplishment in science to the basic study of Quantum Mechanics and to the man-universe concept of cosmology. They all have arrived at the same conclusion. This encourages me in the confidence of my rough knowledge of this and

it gives me the starting point of basic research on Human Body Science. The work I mentioned now can begin .....

(first line of column 10 is missing) . . . .

(3) Since we established the keys of the new development of Human Body Science as it are Chinese medicine theories, Quigong and exceptional function, then the basic studies of human body science should go back to organize the Chinese medicine theories and the practical quigong of the last 2000 years as the focal work. We have to pick out all the exceptional function people from all the ancient history as a study of the ancient experiments. Of course this kind of work have been done on and off since the formation of the New China. So the accomplishment was not very great. I think the reason is

that before they just reviewed for the sake of reviewing. They were using the old language concept to review it. It lacked the thought of modern scientific technology. However, this is unavoidable in the past, mainly because they did not know the focus is *qizhong*. They did not have a scientific understanding. They only explained it <sup>as</sup> a mysterious "energy". How can one solve the problem like this?

If we do the opening + developing work now, we can not the concept that are mentioned earlier in this article, together with the terms ~~in~~ and phrases in system Analysis, Physics and Physiology to review the ~~theory of~~ Chinese Medicine Theories and practical *qizhong*, and to change all the ancient language into the modern language, the language of modern science. Of

course, there are certain things still not clear. For



example, the "external energy" at the start of energy releasing, now we can only call it as the material body of the message carrying energy from the human body. Therefore at this view point, the reviewing work should not only involve the Chinese medicine theoreticians and the qigong experts as the backbone, the modern scientists should also participate. From my own opinion, another reason for the little accomplishment of the past reviewing work is that the leading politicians were not powerful enough. Many of the Chinese medicine practitioners, Chinese medicine theoreticians, qigong practitioners were successful experts; they were very much influenced by the old Chinese culture and the old social traditions would still have much effect on them. The country must care for them, encourage

them and make them abolish the divisive prejudice;  
 to overcome their conservatism (?), and to consecrate  
 their knowledge and experiences, to consecrate their  
 superior power and to build up with one and other  
 to develop Human Body Science and to consecrate for  
 the 4 modernisms in the socialism of our country.  
 The federal government have to provide them good  
 living, supply them with all their needs that they  
 can work in peace. Also it is necessary for the  
 country to strengthen the Chinese Medicine and Quigong  
 leaders.

For Now our country has recovered the Chinese  
 Medicine Institute and the Academy of Chinese Medicine.  
 Both these institutes were destroyed during the 10 years  
 of instability. This country is giving help to the

reviewing of the Chinese Medicine theories. But acupuncture has still not been emphasized and the qigong works have not been organized. These need to be resolved soon. Can we use the existing results from the Chinese Medicine Research Institute and the Academy of Chinese Medicine to tie up acupuncture and qigong? Since they both have the basic concepts, if we put all the research results together, it is really an advantage to the reviewing work and also to the whole research. Thus the Department of Health should put this into consideration.

Besides the reviewing, there is another aspect of research that will involve all the scientists and scientific units in the country: it is that mentioned in the 1980s section that all substances

under the influence of electrowave — from microwave, to mm wave, to infrared wave, to sound wave and other radiations. These substances include all non-living and living things. This also connects some spontaneous phenomena like light emission of the blood. This is very general. It involves the substances becoming orderly when irradiated. This orderly state can produce the different phenomena similar to illuminants, like biological illumination (?). It can also produce strong "resonance". This kind of work can be started immediately. Before man's understanding of the substance of the "external energy", these results can shed some light on those who are researching on the real substance of the "external energy" and finally to get hold of the subject. After we understand

the substance, then it can further be used in the study of the relationship of the "external energy" and their substances. This needs the corporate planning, cooperation and synchronization of a nation wide planning so that the work won't overlap.

After this pioneer work, then we can deal with the study of man itself. in Human Body Science. This is to relate the basic substance of "external energy" in advanced qigong: how & it carries the message, how this "external energy" is generated from the body, and how the body receives the return message? As we mentioned earlier, up to the present, we are afraid that we still haven't detected the "external energy" itself. We had only detected its biological representative (?). Thus this kind of research is

very difficult and it is a tough war.

Of course not all the message received by the human body come from the returning "external energy".

It may be some from some external light. The other parts of the body, other than the eyes, may also receive light, heat and other radiations. Other parts of the body, other than the ears, may have the ~~power~~ ability to receive sound. We also need to study this kind of receivings and their mechanisms.

(4) The different areas of work mentioned in the previous section are still very peripheral to the basic research of Human Body Science. They may be called preparatory work. The basic ~~see~~ research of Human Body Science, of course, is the research of man in a highly complicated macrosystem of various function

states and to explain their mechanisms. The different function states are the different possibilities of function states of the human body. As mentioned earlier, now we see that function states include awake function state, asleep function state, hypnotized function state, danger function state, alert function state and quigong function state. It may be possible that there are more than 1 kind of quigong function state: there is the internal energy function state and the external energy function state. From the System Analysis point of view, these human function states are the relative steady states of the macrosystem. There is a transition state from 1 function state to another and it is relatively unsteady. From the modern point of view, a pair of function states may be

Approved For Release 2002/05/17 : CIA-RDP96-00792R000200230002-9

interchangeable.

For example, quizing function state can interchange with awake function state. Our research is on the study of the function states themselves, and on the study of the process of interchanging, and on the comparative study of different function states and lastly on the understanding of the physiology and psychology of the human body system.

There is still another important area of research: the study of the abnormal state of the human body ~~is~~ sick system i.e. the sick state. Of course, this is related to medicine. But here we are making use of another physiological & psychological states, states that are different from the normal ~~and~~ healthy state to study the human body, and to compare them with the conditions of the normal state, thus enabling



us to understand the functions of the human body system more extensively. This kind of work has to match the practical medical results and is important. However, this of course has its limitations: one cannot experiment on a sick person without limitations.

Another point that needs to be taken into consideration is that the physiology & psychology of a person change as one's age is growing and the human body system will therefore be different. If not, how come these naturally occurring HBETs mostly happened in teenagers? Therefore our research has to take into account the age of the subject, and to compare the change of human body system as a function of age.

Therefore the goal of our research is to understand the human body macrosystem. To start with 6 or 7 different human body functions states and the ~~the~~ process of the transition states, together with the 3 additional factors: the health condition, the age and the sex of the subjects.

How should the research be done? First we need to know man ..... (missing last line of column 13), and a knowledge of the human body system, especially the human body anatomy, human physiology, even the more specialized neurology, nervous physiology & histology of the studies of the last 100 years. have greatly increased our understanding of the human body. This kind of research is done both here and in other countries. New discoveries are continuously found.

man. The researcher is a man and is the subject; but what he is studying is also man, the object.

We have to use the methods of self-examination or internal examination. This is very important in Human Body Science, because the function states we are studying only exist in living people. The main research object must be a living person. And when we use this research method, the effects of the mind and its effects on the human body system and the process of the influence are especially important. This is exactly the same as the internal function of qigong and its corresponding qigong function state. This is the reason why we say that qigong is the focus of Chinese Medicine Theories, Qigong and Human Body ~~Exceptional~~ <sup>Experimental</sup> Function. While Chinese Medicine Theories,

Qigong and Human Body Exceptional Function are the keys to develop the research of Human Body Science. During these recent years, our ~~real~~ experiments had also proved this point. It is the HBEF teenagers that opened the door of Human Body Science. Therefore the basic research in Human Body Science must have the participation of the Qigong practitioners and the HBEF teenagers. Besides, all the scientists involved should learn Qigong & exercise qigong. Otherwise without the subjective knowing, how can one push the research to its high level of theories? They may even misinterpret the experimental results. Another HBEF is consciousness is hypnotised function state. Therefore the practice of hypnotism is an important function in the study of Human Body Science.

The present scientific technology has also provided the third classical method in the basic study of Human Body Science: instrumental detection. Because of the reasons mentioned earlier i.e. the brain is the leading part in human body functions, the technology of brain electrograph was used. Because the brain electric field usually has high interference, and in order to realize the activities of the brain, there is a need of using computers to correct for the background interference to spike the electroquantity. Therefore the brain electrograph technology includes data analysis and all the other facilities. The change in electric potential in other parts of the body is also a phenomenon of the mechanical activity of the human body. Therefore other means of detection of electric potential are also

needed. Besides, the human body has a magnetic field; therefore it also requires the detection of the electromagnetic energy of the body. Because the interference and the change of the external magnetic field in the environment are often quite large, there is a need to demagnetize the room before measuring the detection. The change of magnetic energy in the brain is about  $10^{-12}$  Torrs (?) (a unit of magnetic energy) and that of the heart is  $10^{-10}$  T (?). Thus the room should be demagnetized to a field of  $10^{-14}$  T. This room needs a lot of magnetic insulated materials and the cost of building it is comparatively high. But the brain magnetogram is advantageous over the brain electrograph. It detects the change which comes from only a certain region of the brain and not from any external signal (guessed

from content — last line of column 15 was not clear)  
.... but brain electrographs cannot distinguish the  
difference.

Earlier we have mentioned to use sound  
detector to detect the pathway of nerve network  
or to use super weak illuminator (?) to detect the  
human blood emission. These are the possible means  
to use in the study. There is one point worthy  
mentioning : because the human body system is highly  
complicated, it may involve the use of many kinds  
of instruments, simultaneous detection with multi-sources  
and multi-detection points. This is to put the  
detectors together to form a connected detection system,  
with computers, magnetic tapes and screen recorders.

has another auxillary hand : i.e. to use pharmaceuticals to influence the functions of the brain. There are a lot of drugs that have certain functions on certain parts or locally changing their original functions, either strengthen or suppress them, artificially changing the function of the human body macrosystem. To compare the functions before and after is another way of analyzing the problem.

Lastly we of course need to mention the work of the theories. We have to apply system analysis and other scientific theories to the Human Body Science, to build up the basic theories. This project will be related to the very frontier work of scientific theories.

Comrades, from the first national conference of the Society of Human Body Science, we have to this



national conference, the development is picking up its speed and nowadays every day we have new discovery. This enthusiastic atmosphere just reminds us of the same atmosphere when Einstein's Theory of Relativity and Quantum Mechanics were introduced into the stage of modern science. The only difference is that the stage at that time was Western Europe and now the stage is the People's Republic of China. Comrades, isn't this encouraging? And I am writing this article with this kind of feeling. Of course, my aim of writing this is to ~~arise~~ arouse some comments, criticisms and corrections from you. I believe that after the discussion, we can then start to develop the basic regulations and planning of Human Body Science. ~~Thus~~ all the hard labor of recent years

of HBEF researchers and the HBEF teenagers will lead us on the right track. Together with the 2 treasures of the country: the Chinese Medicine Theories + Qigong, Human Body Science will blossom and bear fruits in this socialism of China. The potential power of men can be developed. On the road of going on, there will be some unreasonable sarcasm but we don't need to be distracted. We will also be mocked by some people, but we don't need to pay attention to them. There were such kinds of people 50-60 years ago. We only need to labor steadily and at the end we will have good results to offer to the society.